

Aditi Gujral

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Brampton, ON

EDUCATION

Bachelor of Science (BSc) – Computer Science

September 2023 – Expected 2028

Minor: Software Engineering

Western University

- **Awards:** HB2 Entrepreneurship Scholarship, Illuminate Universe Entrepreneurship Program Scholarship

EXPERIENCE

Software Developer Intern

May 2024 – September 2024

AG Mobile Diagnostics

Toronto, ON

- Developed a responsive web platform using HTML, CSS, and JavaScript to streamline client access to diagnostic results; efforts increased client engagement by 30% (Communication/Technical)
- Integrated front-end and back-end systems to enable seamless user data flow and project scalability

Geotech Engineer Laboratory Assistant

December 2024 – Present

Western University

London, ON

- Collaborated with PhD students, professors, and industry partners at the K.Y. Lo Geotechnical Research Centre to support advanced soil and rock mechanic's research
- Perform experimental testing and analysis of rock swelling and stress-strain response

AI & Biomedical Software Team Member

September 2025 – Present

Software Design to support AI-assisted knee rehabilitation

- Developed C/C++ software for real-time IMU data processing to improve motion-feedback accuracy
- Integrated Arduino modules to improve responsiveness and tracking stability

Aerobody Design Engineer

September 2025 – Present

Sunstang Solar Car

Western University Club

- Modified existing aerobody component to 92% accuracy and producing new parts via resin infusion
- Designing a mounting system for the aerobody to allow easy access to the battery pack and internal mechanisms

PROJECTS

AI In Healthcare - Research

March 2025

- Researched AI and machine learning applications in healthcare diagnostics, analyzing datasets with Python to enhance medical imaging accuracy and predictive modeling

Integer to English Word Converter (C, Unix/Linux)

September 2024

- Engineered a C-based integer-to-English word converter for educational tools on Unix/Linux, focusing on robust input validation and error management

Doubly Linked-List Text Editor (Java)

July 2024

- Engineered a Java-based text editor optimizing large text file handling with minimal resource utilization through dynamic doubly linked-lists

Sentiment Analysis Tool (Python)

June 2023

- Created a Python-powered sentiment analysis tool leveraging NLTK and pandas libraries to analyze text sentiment, achieving 85% accuracy on standard datasets

SKILLS & CERTIFICATES

Certifications: Certified SolidWorks Associate (CSWA), Workplace Hazardous Materials Information System Training, TCPS 2: CORE-2022

Languages: Java, C, Python, C#, ARM Assembly, R, SQL

Tools: PyCharm, VS Code, Xcode, Keil uVision4, Rstudio, Terminal, Git/GitHub, Arduino IDE, Linux/Unix

Web Development: HTML, JavaScript, CSS, Swift

Design: UI/UX, Figma

Additional: 3D Printing, Auto Cad, Solid Works, Virtual Reality, Microsoft (Excel, Word, etc.), Machine Learning